

OTVARC Oscillator

Feb. 1993

From the President's Desk

By Dale Mosby, N7PEX

I am constantly amazed at how handy amateur radio is. My wife recently took our daughter and another girl up to Meadows for a day of skiing. It was really great to be able to talk with them and know that their drive was going fine and also to know when to expect them home. I know, I was a bum and didn't go along. Instead I was home soldering on my latest radio related project. I guess this is why my wife doesn't always see amateur radio to be quite the great hobby that I do.

Our attenuator project was a success with close to 30 of these now owned by our club members. We still have some antennas left so grab one of these at the next meeting. A set of wire strippers was left after the last project night so pick those up if they belong to you. Thanks again to Alan, AA7CV, for all his work in getting parts and doing all the partial assembly; Dale, WB6BYU, for the design and prototyping; and Tim, N7UCA, for his work on the scope testing them.

Now, those of you with attenuators, I hope you get some practice with them and have fun with them. Don't forget that OTVARC will be selling ARRL literature Saturday, February 20 at the Salem Hamfair. This is at the Polk County Fairgrounds, west of Salem where Highway 22 meets 99W at Rickreall. Talk-in frequency is 146.26. Please sign up at the next club meeting for a little time helping to sell some of the literature.

Please See President..., page 6

At the Next Meeting:

Wednesday, Feb 10 will be the next regular club meeting at Beaverton Elks. I BUILT IT MYSELF! You say you always wondered what was inside these black boxes we use every day? Now you can find out. Come to our February meeting and see some of hamdom's finest (and less than finest) electronic handywork.

If you have ever built something in your life, bring it along. We promise not to laugh. We may even be impressed. We may actually be spured on to building something ourselves so if you built it, BRING IT. We'd love to see it.

Also: Wednesday, Feb 3: Board meeting. Location is back at Geno's KA7KBH place. Contact any board member for address. 7PM.

Inside This Issue:

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Schedule of OTVARC Events for 1993

Board meets Feb 3.

Club meeting Feb 10. **I BUILT IT MYSELF.** A potpourri of home brew projects. We will have short talks on several different projects our members have built. Come for ideas on your next project.

Sunday, Feb 14. Special Event Station. Oregon's 134th birthday.

Saturday, Feb 20 Hamfair at Rickreall. OTVARC mans ARRL booth.

Board meets Mar 3.

Club meeting Mar 10. **CQ TEST!** Yes, this is the night we all learn how to succeed in a contest. Whether your idea of a contest is listing to 2 M or making a million points in SS, come hear how others have done it. Also...CW Speed Contest. (Held during club meeting).

Board meets April 7.

Club meeting April 14. **MY FAVORITE ANTENNAS.** Our speaker will give us the lowdown on how to get the very most out of a length of wire or a piece of pipe. Real live models (of antennas) will be on hand. Also...April Fools Contest.

Board meets May 5.

Club meeting May 12. **FIELD DAY FEVER.** Videos and actual lies of field days past. We will also have the last minute plans finalized for how we will exceed last year's eating extravaganza. Also...Bunny hunt. 2 Meters. First one to find the bunny wins. Reach The Beach Bicycle Tour

Board meets June 2.

Club meeting June 9. **AMATEUR TELEVISION.** Others only watch it. Hams make it happen. We will have a working demonstration of amateur TV set up for your inspection. Also...Sea-Pac Convention To Hel'en Back Bicycle Tour Field Day Trask Motorcycle Trials Cascade Runoff Rose Festival Parade Starlight Parade

Board meets July 7.

Club meeting July 14. **AT ANY MOMENT.** Emergency preparedness is the key to being ready to help when the need arises. Our program will give you all the inside dope on what Washington County EOC and OTVARC are doing to make sure we aren't caught with our parts down. Also...Club Picnic. Oregon Games 4th of July Parade Coors Light Duathlon

Board meets August 4.

Club meeting August 11. **PACKET RADIO & SWAP NIGHT.** Everything you wanted to know about packet radio will be explained by the experts. A working station will demonstrate the wonders of digital communication. Also, this is our annual swap night. We will have tailgates as well as inside tables. Bring you equipment in and leave with cash (or the other way around). Everyone wins. Also...Swap Night. MS150 Bicycle Tour Oregon Trail Bike Trek

Board meets Sept 1.

Club meeting Sept 8. **INTERFERENCE ELIMINATED.** Well, maybe not eliminated but at least explained. We will cover RFI, TVI and phone interference and how to eliminate or reduce these troublesome problems.

Also, this is our annual **TUNE UP NIGHT.** Yes, we will have our hardy crew of experts on the scene to tune up that old tube rig or tweak the deviation of your handheld to perfection. Also...Art Quake Cycle Oregon Beaverton Good Neighbor Days Parade Portland Marathon Am Rad Youth Rally

Board meets Oct 6.

Club meeting Oct 13. **SATELLITE COMMUNICATIONS.** Here is a look at the ultimate in DX. We will have a live satellite station set up to look at and listen to. Satellites are the wave of the future and the future is here. Also...Halloween Contest. SSB on 10M for 1 hour. Walktoberfest

Board meets Nov 3.

Club meeting Nov 10. **WORKING DX.** Here is the program that tells us all how to get the really rare ones. You will marvel at the trickery that goes into snagging the rare ones. There will also be tips on how to get QSLs. Also...Santa Claus Parade

Board meets Dec 1.

Club meeting Dec 8. **NEW OFFICERS ELECTED & HOLIDAY PARTY.** Come and see who will lead us into the second half of the last decade of the year.

If you have updates for the event calendar, please contact our newsletter editor, Alan Chapmann, AA7CV.

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The Ultimate Attenuator Project: Wrap-up

by Allan Churchill, AA7CV

On Tuesday, Jan 5 from 7PM until 10PM, 25 of us got together at Bud and Sally Butterfield's place for one FINE project night. Bud and Sally were nice enough to allow us to use his spacious meeting room at Pine Ridge Park for the event. It turned out we needed every available table and chair because the turnout was wonderful. Nearly everyone that attended finished the attenuator. Some started work on the antenna and all had a good time. As with most project night events there was about 50% DX lies and 50% actual building.

A great big thanks goes out to Bud and Sally for donation of their facility. They even cleaned up after us! More praise has to go to Dale Hunt WB6BYU who designed the circuit, oversaw construction of the attenuators and gave tips where needed. Tim Taylor N7UCA checked out every one with his scope so we knew they worked before they left the door. We found a couple of bad pots but were able to replace them on the spot.

All in all it was a fun and educational meeting. There are now 30 more hams well equipped for bunny hunting in the Portland area. We invited the PARC and Clark County clubs to our next meeting to see what we did and hopefully copy the process.

LATE BREAKING NEWS!!! Dale and Bud have now scheduled a followup meeting. We will all meet again at Bud & Sally's on Feb 21 at 1PM. Dale will be there with his testing equipment. Meet at Pine Ridge Park, 6900 SW 195th at Farmington Rd, Beaverton. This is the same place as before. Be there!

Upcoming Events:

CLUB MEETINGS:

Feb 5	Clark County ARC
Mar 5	Clark County ARC
Feb 5	TERAC
Mar 5	TERAC
Feb 10	OTVARC
Mar 10	OTVARC
Feb 11	McMinnville ARC
Mar 11	McMinnville ARC
Feb 18	Hoodview ARC
Mar 18	Hoodview ARC
Feb 23	Salem ARC
Mar 23	Salem ARC
Feb 26	Portland ARC
Mar 26	PARC

TESTING SESSIONS:

Feb 8 Radio Am of the Gorge. Ph 386-2041.
Mar 13 Mt. Hood CC Rm 1001 9:30 registr.

OPERATING:

Feb 14 Special Event Station for OTVARC.
Oregon's Birthday Station
Feb 21 Attenuator wrap-up. See story at left.
Mar 10 CW speed contest at OTVARC mtg.

HAMFAIRS:

Feb 20 Rickreall. Saturday 9AM. OTVARC
has an ARRL booth. Stop by!

BORSCH ELECTRONICS

Communications Servicing

9935 S.W. Johnson St.
Tigard, OR. 97223

Joe Borsch W7PNS

(503) 684-5201

OTVARC Club Contacts

OTVARC Executive Board

President	Dale Mosby	N7PEX	640-0217
Vice Pres	Alan Churchill	AA7CV	639-5660
Secretary	Brad Beach	N7NVC	657-1781
Treasurer	Carl Clawson	WS7L	629-5796
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Dave Morrison	W7JXU	645-8788
Trustee	Ira Rubin	KF7QS	244-3070
Trustee	Lynn Hurd	WB7UNU	649-9152
Trustee	Wes Allen	K7WWG	649-3295

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	297-2732
Bunny Hunting	Dale LeBarron	W7FBP	638-7768
Contesting	Open		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	Tim Taylor	N7UCA	292-6830
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Pat Griffiths	KA7UFG	649-0837
Member Badges	John Klein	KA7ICV	281-0798
Newsletter Editor	Alan Churchill	AA7CV	639-5660
Newsletter Layout	Doug Reeves	N6XHW	690-0596
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nomination of Officers	Alan Roehl	KO7B	292-5243
Project Night	Open		
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	N7PEX	640-0217
Satellites	Red Robert	AA7CP	357-5747
Scholarship	Pat Griffiths	KA7UFG	649-0837
Sea-Pac	Al Berg	WB7SIC	640-5456
	Brad Beach	N7NVC	657-1781
	Jim Schaeffer	KB7ADH	245-2518
	Alan Churchill	AA7CV	639-5660
Technical	Joe Boyd	N7VZS	678-2188
Tower Ordinances	Stan Griffiths	W7NI	649-0837
Trailer	Dee Lynch	KA7NPN	646-4580
Training (Code)	Tom Durell	KG7RD	
Training (Novice/Tech)	Dave Morrison	W7JXU	645-8788
Training (Upgrade)	Joe Boyd	N7VZS	678-2188
VE Testing	Alan Roehl	KO7B	292-5243
VE Test Schedule	John Klein	KA7ICV	281-0798
VHF/UHF	Bill Roth	N7RYW	297-7605

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a non-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

1. Education & training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The OTVARC Oscillator is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views and recommendations of its contributors are not necessarily those of the Club, it's officers, advertisers or the Editorial Staff.

Correspondence: All correspondence may be sent to OTVARC PO Box 5132 Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time from February through June and July through December. All ads must be paid for in advance. Rates for 1993 are as follows:

Full Page	8" X 10"	\$200 for 6 months.
Half Page	8" X 5"	\$125 for 6 months.
Qtr Page	4" X 5"	\$75 for 6 months.
Bus Card	2" X 3"	\$35 for 6 months.

Meetings: We have two meetings per month. The board meeting is on the first Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The General Meeting is on the second Wednesday of each month at the Beaverton Elks Club, 3500 SW 104th Ave (1 block off Canyon road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.

Membership: OTVARC is open to anyone who breathes. You do not need to be a licensed radio amateur to join our group. Dues are as follows: Full member, \$10/yr; Associate member (nonlicensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club Treasurer for reduced dues.

How to Join: Simply mail the Member Application and Renewal Form along with your dues to the address above.



Barbara Sue Seal

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LOCAL HAM CLUBS

(Stop by for a visit)

Name..... Clark Co. ARC
 Address..... P.O. Box 1424
 Vancouver, WA 98668
 Meeting .. First Friday at 7:30 PM
 Bagley Comm Center.
 4100 Plomondon St. Vancouver
 East end of Building
 Packet meeting 2nd Tues @ 7:30 PM
 Open Bible Church
 Corner of SE 10th & Elsworth
 President.... Dan Baulig, N7PKB 254-6202
 Established.. 1932
 Club Call.... W7AIA
 Repeater..... 147.24 +
 Nets..... Tuesday 7 PM 147.24
 Tuesday 8 PM 147.24 Swap N Shop
 Sunday 8 PM 147.24 Open Session
 Activities.... Walk N Knock: March of Dimes
 Horse A Thon - Long distance riding
 WalkAmerica

Name..... Hoodview ARC
 Address..... P.O. Box 20624
 Portland, OR 97220
 Meeting... Third Thursday @ 7:30 PM
 Mt. Hood CC Room 1001
 President.... Rob Butt, N7MZR 632-7990
 Club Call.... WB7QIW
 Repeater..... 147.28
 Nets..... 147.27 each Wed at 7:30 PM
 28.325 each Wed at 6:45 PM
 Activities.... March of Dimes Walkamerica
 Breakfast every Sat at Heidi's
 in Gresham. 7:30 AM.

Name..... McMinnville ARC (MARC)
 Address..... P.O. Box 891
 McMinnville, OR 97128
 Meeting... Second Thursday @ 7:30 PM
 HP Building
 President.... Dave Davis, KB7HQA 843-2532
 Repeater..... 146.64

Name..... Portland ARC (PARC)
 Address..... 6115 SE 13th Ave.
 Portland, OR 97202
 Meeting... Fourth Friday @ 7PM
 PCC Southeast Cntr, Rm. C-2
 2850 SE 82nd Ave.
 President.... J. Kevin Hunt, WA7VTD
 655-8900
 Established... 1941
 Club Call.... W7KYC
 Repeater..... 146.84
 Nets..... 146.84 each Monday at 7 PM.
 Activities.... Portland Marathon
 Red Cross
 Kelly Butte E.O.C.

Name..... Technology ARC (TEARC)
 (formerly Tek Employees ARC)
 Address..... P.O. Box 500 MS 50-600
 Beaverton, OR 97077
 Meeting... Fourth Tuesday @ 7:30 PM
 Bldg 45 Conf Rm
 (Tek Cafeteria)
 President.... Gene Single, K7IUN 644-0807
 Club Call.... K7AUO
 Repeater..... 448.650
 Activities.... Artquake
 Activities....

Name..... Oregon Tualatin Valley ARC
 (OTVARC)
 Address..... P.O. Box 5132
 Aloha, OR 97006-0132
 Meeting.... Second Wednesday @ 7pm
 Beaverton Elks, 3500 SW 104th
 (1 block N of Canyon Rd.)
 President... Dale Mosby, N7PEX, 640-0217
 Repeater.... 146.690 (courtesy K7WWG)
 Activities.... Cycle Oregon, MS 150,
 Walktoberfest, Dinner before
 meetings @ ~6pm at Elks Lodge

If you have updates or additions to this list, send them to OTVARC at our PO Box. Thanks.

FOR SALE OR TRADE OR WANTED

Wanted: Yaesu FTV 650 B 6M transverter.
Under \$100. Ed N7SNT 636-8226.

Wanted: Disk drive for the Commodore
computer. Contact Jim Schaeffer
KB7AAAADH at 245-2518.

For Sale: TR4 Drake Tranceiver. Includes
manuals, Power supply, desk mic. 6146
finals. Phone Gordon W7MAM at 324-9600.

For Sale: Member badges for OTVARC
members. For only \$4 you get your very
own name and call on a pin so we will all
know who you are. Contact John KA7ICV.

For Sale: Rohn 25 Tower, 6 sections (60')
including rotor plate and top, thrust bearing,
work platform, torque bars; \$600. Call
Marty McKillip, KD7LA, 644-9244.

President...

from page 1

And finally, don't forget the OTVARC
special event Saturday and Sunday February
13 and 14. This is a great way for people
with little or no HF experience to spend a
little time on HF. If you are interested and
have not yet made arrangements to take part
give me a call or talk to me at the February
meeting. That should be an interesting night
as we will get a chance to take a look at some
of the great home-brew projects done by our
club members. Don't forget to bring some-
thing you have made to the meeting.

73, Dale.

OTVARC News Gone, *Oscillator* Details Reveled

By B. Douglas Reeves, N6XHW

The *OTVARC News* was laid to rest this
week and the *OTVARC Oscillator* has moved
in to fill its place. Alan Chapmann AA7CV,
the *Oscillator's* editor assures us that only the
name has been changed (to protect the
innocent?).

The *Oscillator* begins its monthly journey
in the hands of OTVARC members who
write its articles, notices and classified ads
by themselves. The submissions are then
turned over to Alan for editing articles and
compiles all the little notes he gets into
comprehensible text files.

The articles then make it to Doug
Reeves who typsets the files and organizes it
into what you see here. The layout work is
performed on a Macintosh PowerBook 100
computer using Aldus Pagemaker and lots
of coffee. The *Oscillator* sports a new type-
face this month in response to comments
about the text's readability. Please let Doug
know if you think it is easier (or harder) to
read.

At the end of the month before the publi-
cation month, the finished pages then make
it to Al Berg, WB7SIC, who copies labels,
stamps and mails the newsletters to club
members. [Many thanks to Al for doing such a
speedy job when I get the newsletter to him late -
Doug R.]

Alan and Doug remind you that the
newsletter works only if you contribute, so if
you have an announcement, an article of
interest, something to sell (remember, classi-
fied ads are *free*), then give it to either one of
them. For long articles, please include a
TEXT file in either DOS or Mac format.

Dealing with Intermod

By Bill Roth, N7RYW

Help! I keep hearing the TV station on my 2 meter handheld! What's wrong with this radio?

Actually, there may be nothing wrong at all. What we generically call intermod can be caused by a number of different things. In the example above, the problem was that a harmonic of the TV station happened to fall very close to his simplex frequency. Yes, there are FCC rules as to harmonic suppression, but 60 dB down from a 5-Megawatt EIRP TV transmitter is still 5 watts.

Most broadcast facilities, however, have their harmonics well below the specified maximums. After all, you are their customer, and they want you happy. It is also a matter of pride of the engineers.

Outside of broadcast harmonics, there are also two other common causes of intermod. The first, which I have found locally on the 137 MHz band, is due to two very large transmit signals mixing on their own. This can be from something as simple as a rusty joint at the transmitting tower.

The other, more common cause is from the signals mixing somewhere in your receivers RF section. Different manufacturers use different combinations of mixing and IF frequencies, so different radios, even from the same manufacturer, will be affected in varying levels, depending on local conditions. I have sold radios that work perfectly standing right next to a TV tower, but in another city were flooded by interference 25 miles away.

What Can Be Done? The best thing you can do is to listen to the radio you plan to

buy, where you are going to be operating it. Check with your friends who are close by and see what problems they have found (or not). There is, actually, not much difference overall between the major manufacturers as to susceptibility. They all get hit at one place or another.

If you are in a high RF area, it may also help to get a radio which has less receive bandwidth. The wider the bandwidth, the greater the potential for overload. This can mean giving up wide band receive, but the best place for scanning is a scanner, not a Ham Radio. Handhelds, due to their smaller size, also tend to be much more susceptible. There isn't much filtering that you can fit into the front end of such a small unit.

On another note, anyone on two meters has probably heard the malicious interference occurring there. Apparently, this has been happening on other services, such as Police and Fire, as well. It is the policy of HRO that we will give out modification information on the radios we sell ONLY to those purchasers who have a valid MARS or CAP license. If someone is buying a used rig from you of any sort and asks for the modification information, check their MARS or CAP license. No one else has any legal reason for modifying a radio to transmit out of the Ham bands. If you have a modified radio, don't sell it to just anyone, either!

No Shirt, No Shoes, No Service Department

The Beaverton Elks would like to remind us that hats and shorts are not to be worn in their establishment. With the weather in the low thirties there have not been complaints about OTVARC members wearing shorts. Please remember to remove your hat or baseball cap when you attend meetings.

FOR TRADITIONAL CONVERSATION ON VOICE

I hope you don't take Emerson Hoyt, WX7E or Bob Halprin, K1XA too seriously and destroy one of the most colorful traditions of amateur radio . . . it's unique language. Yes, there are certainly serious times in amateur radio when nothing should be compromised and total clarity and complete understanding are of the utmost importance. Such times would be in a bonafide emergency or a serious net operation which is essentially a practice session for a bonafide emergency. But most of the time, hams are having fun talking to each other and during those times, imposing unnecessarily strict and formal rules regarding how to have fun talking to each other would destroy some of the fun itself.

When someone says "73's" or even "best 73's" to you, do you really not understand him? These two phrases have been in such common use for so long that "73", "73's", and "best 73's" in fact all mean the same thing. It just isn't a problem except for someone who wants to make it a problem.

Even though all of the books say that "88" means "love and kisses" (or "hugs and kisses" according to K1XA) I don't think it really means that. I have tried to imagine myself substituting the words "love and kisses" for "88" in a QSO with a YL and I am just not comfortable with it. It doesn't matter how long I've known the YL, either. To me, "88" means something like "mild affection" and it really has a meaning of it's own which I can't quite put into words. I will continue to use "88" which to me has it's own unique meaning.

PLEASE don't abandon the use of "cute" phonetics. The are cute and fun and are an integral part of amateur radio as I have known it for 40 years. Common sense would tell you not to use them in an emergency or on a serious net but what is wrong with them the rest of the time? My wife is known by many as "KA7 Up For Grabs" and I am "W7 No Intelligence". I used to be "W7 Too Much Liquor" when I was in high school. One of the most hilarious ham radio experiences I can remember was listening to N7ZZ make up crazy phonetics on the spot for every station he worked during field day on a fast run of contacts on 20 phone! I believe that was fun for every one involved and fun was the whole reason we were operating that event in the first place.

Of course, when you have a call like WX7E it's tough to join the fun. I challenge anyone to think up some cute phonetics for that one.

Best 73's

W7 Numbskull Idiot

It's Time to Renew Your Membership!

By Carl Clawson, WS7L

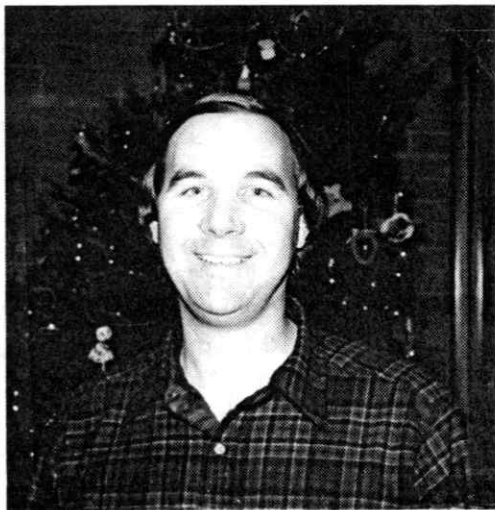
OTVARC memberships expire at the end of the calendar year, so if you haven't yet paid your 1993 dues it's time to reach for your checkbook. Dues are \$10.00 per year, with a one-time \$2.00 initiation fee for new members. Please send a renewal form (which you'll find below) with your check. You may mail your dues to OTVARC Treasurer, PO Box 5132, Beaverton, Oregon 97006, or pay them at the February board meeting (Feb. 3) or general meeting (Feb. 10).

Daily Net Listing for Two Meters

by Bill Roth N7RYW

145.27	Daily	5:50 AM	Weather Net
145.27	Daily	4:24 PM	Weather Net
146.78	Daily	7:30 PM	Dist 4 ARES (Corvallis)
147.32	Daily	6:05 PM	Traffic and training net.
147.32	Daily	7:30 PM	District
145.27	Mon.	8:30 PM	YL & Ladies Net
146.84	Mon.	7:00 PM	Portland ARC news.
146.86	Mon.	7:00 PM	ARES net.
147.00	Mon.	8:00 PM	CCRA Service net.
145.27	Tue.	6:00 PM	DX Linkup to the East
145.27	Tue.	9:00 PM	Computer Net
146.90	Tue.	7:00 PM	WA Co. ARES Net
147.24	Tue.	8:00 PM	Swap n Shop
145.10	Wed.	8:00 PM	NW Astronomy Net

YOUR LEADERS FOR 1993



DALE MOSBY N7PEX
PRESIDENT



ALAN CURCHILL AA7CV
VICE-PRESIDENT



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Ray and Dale

TSSI Telephone
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(800) 723-3737

BPS Telephone
(503) 324-2910
FAX (503) 324-4833

147.28 Wed.	7:30 PM Hoodview ARC net.
145.27 Thur.	7:00 PM Intertie Technical
145.27 Thur.	9:00 PM NAPRA Packet Ragchew
145.35 Thur.	7:30 PM Swapnet & Newslane.
146.64 Thur.	7:15 PM Yamhill Co. ARES
146.86 Thur.	7:00 PM ARES net.
145.27 Fri.	8:00 PM Youth Net.
145.27 Sat.	9:00 AM Swap Net
145.27 Sat.	12:00 PM Nightowls Net
145.27 Sun.	10:00 PM Astronomy Net

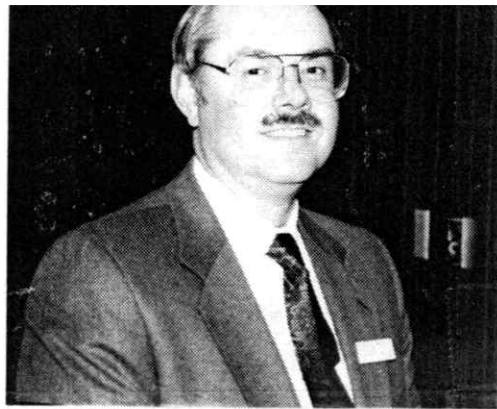
1993 OTVARC MEMBERSHIP APPLICATION AND RENEWAL FORM

Name _____ Call _____

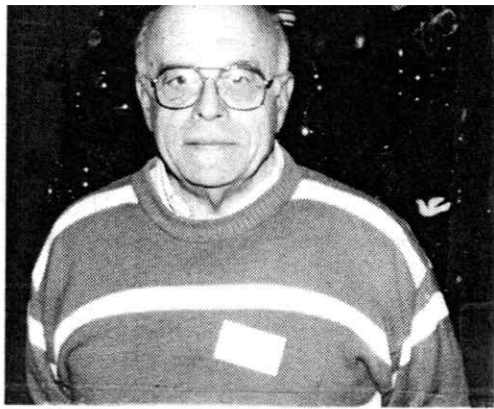
Address _____ Class _____

City, State, Zip _____ Home Phone _____

You may combine your ARRL membership and OTVARC membership. We handle all the details and it makes money for the club. Thanks.



DAVE MORRISSON W7JXU
TRUSTEE



IRA RUBIN KF7QS
TRUSTEE



WES ALLEN K7WWG
TRUSTEE



OTVARC Renewal..... 10/yr
OTVARC Associate..... 10/yr.
Family Member..... 5/yr
Life Membership..... See Treasurer.
ARRL Membership..... 30/yr.
ARRL (65 & older)..... 24/yr.
ARRL Family Member..... 12/yr.

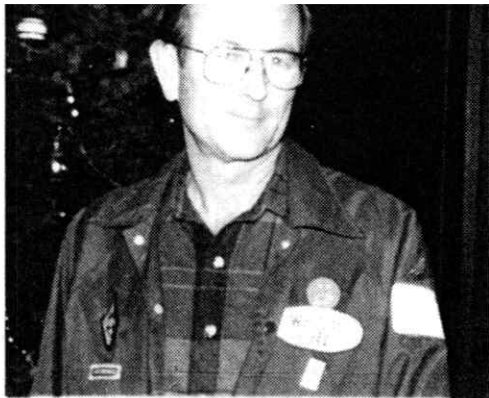
ARRL Total _____
Grand Total _____

Date Paid _____
Check Number _____

Mail to: OTVARC P.O. Box 5132 Aloha, OR 97006-0132



LYNN HURD WB7UNU
TRUSTEE



AL BERG WB7SIC
TRUSTEE

COOPS! NOT PICTURED

BRAD BEACH N7NVC SECRETARY

CARL CLAWSON WS7L TREASURER

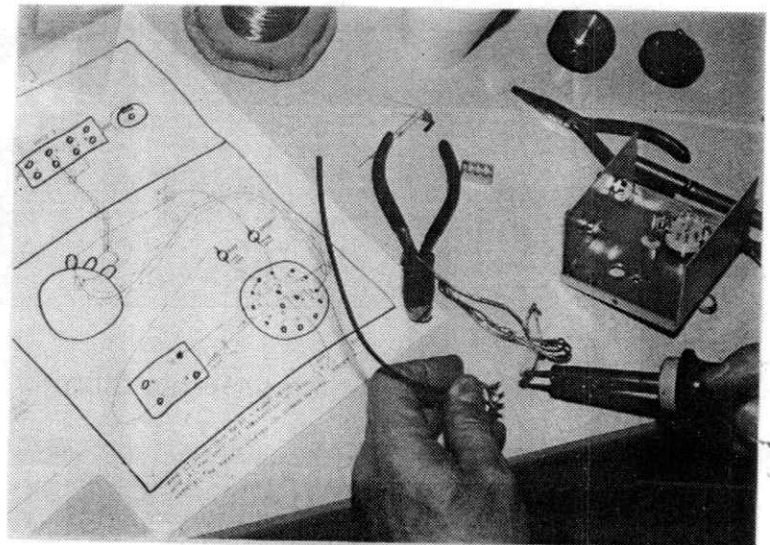


N7UCA SHOWING THE WAY

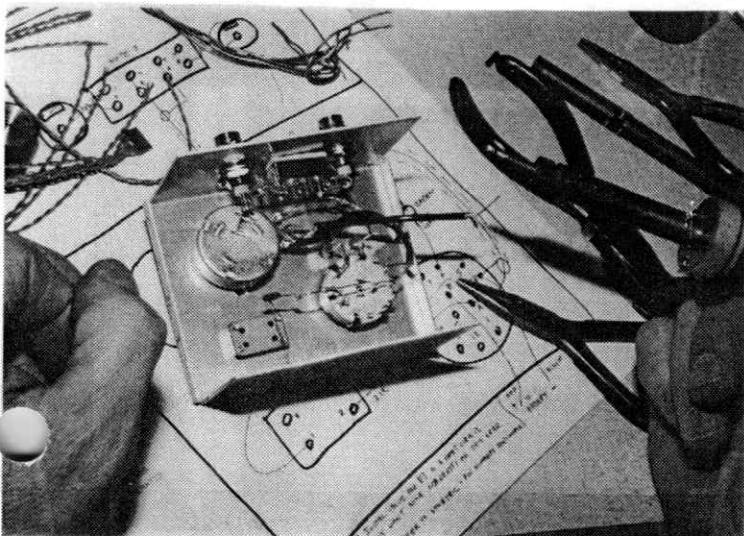


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Address Correction Requested

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2256 SE Oak Crest
Hillsboro, OR 97123

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FIRST CLASS MAIL